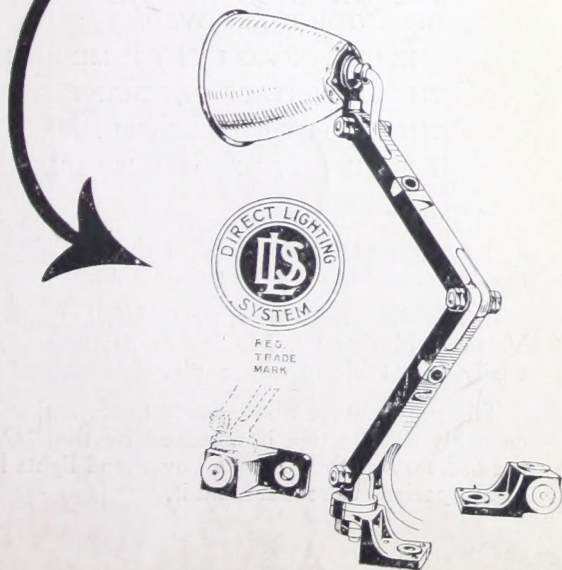


21, 32

LIBRARY  
THE FRANKLIN INSTITUTE SEP 23 1921

# 100% Efficiency



# ELECTRICITY & EFFICIENCY.

THE advantages of Electric Lighting in Engineering and other Works are undeniable.

There is room for, and there exists, difference of opinion as to the respective merits of General Illumination or Local Lighting.

We recognise that difference, but assume that, whatever the method, 100% *Efficiency* in lighting is desired.

We assert that if you have adopted the principle of General Illumination in your works this can only be obtained by the use of the "*D.L.S.*" *Electric Fitting* in conjunction, and that if Local Lighting is your method, the "*D.L.S.*" *Fitting* must be installed to produce the high efficiency required.

General Illumination, good in principle though it is, is not ideal for machine tool and other work requiring good attention and close application. Shadow, with all its consequent drawbacks, is unavoidable. Supplement with the "*D.L.S.*" *Fitting* and

THE STRAIN ON THE EYESIGHT OF THE OPERATOR IS REMOVED.

THE RISK OF ACCIDENT IS MINIMISED.

THE PERCENTAGE OF SCRAP IS REDUCED.

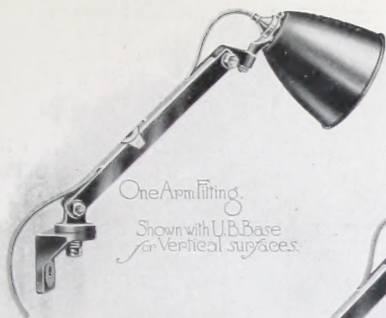
THE OUTPUT IS INCREASED.

THE QUALITY OF WORK IS HIGHER.

The "*D.L.S.*" *Fitting* provides for the illumination of any and every part of the work in the Machine, in the way, at the angle, and at the time the operator requires it.

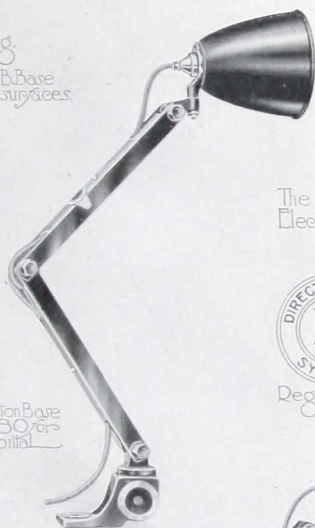
It can be attached either to Wall, Bench or Machine ; Vertical, Horizontal, Moving or Stationary surface, and is easily adjustable at any angle.

The points made above serve to show that Local Lighting can only be effective if provided by the "*D.L.S.*" *Fitting*, the ordinary method of fixed overhead lights having nothing in comparison to recommend it.



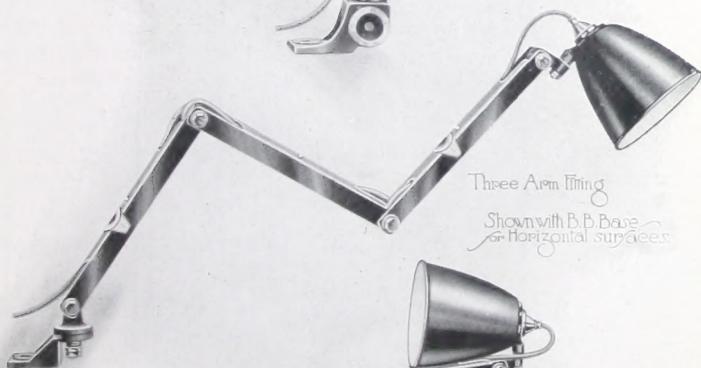
One Arm fitting.

Shown with U.B. Base  
for Vertical surfaces.



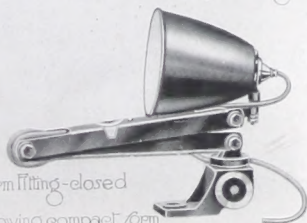
Two Arm fitting

Shown with Combination Base  
Reg. No. 663880 for  
Vertical & Horizontal  
surfaces.



Three Arm fitting

Shown with B.B. Base  
for Horizontal surfaces.



Two Arm fitting-closed

Showing compact form  
when not in use.

The D.L.S.  
Electric Lighting  
Pat. No.  
119934



Reg. Trade  
Mark



The "*D.L.S.*" *Electric Fitting* is an *Engineers Fitting* built on scientific lines.

The illustrations give an excellent general idea of the construction and appearance.

The arms, which are a particular feature, are made in *one piece*, pressed to special form from steel plate. The process of their manufacture is the guarantee of their Strength and Rigidity. They are connected to each other, and to the base and lamp shade holder, with standard bolts, spring washers and nuts, so adjusted that whilst perfect freedom of movement is afforded, the "set position" is retained under all conditions of vibration on Machine Tools.

The bottom end of the first arm is secured to a swivel joint carried on the base bracket, which is supplied in three styles as illustrated— "*B.B.*" for horizontal positions; "*U.B.*" for upright positions and the Combination Bracket (Registered No. 663880) which can be fixed and will carry the Fitting in either position. The top end of arm has a jointed swivel connection in which the lamp shade is secured and, in addition therefore to the movements at the other joints, a "*Universal*" movement is obtained at the lighting point.

The lamp holder is *carried by the Reflector* and is suitable for any voltage standard metal or carbon filament lamp. It is provided with a special grip to take the flexible cable.

The "*D.L.S.*" Reflector which is Vitreous Enamelled inside and out, completely protects the lamp from risk of breakage. This reduces the cost of maintenance and is an additional advantage in favour of the fitting.

The correct method of wiring is shown in the illustrations and should be adhered to.

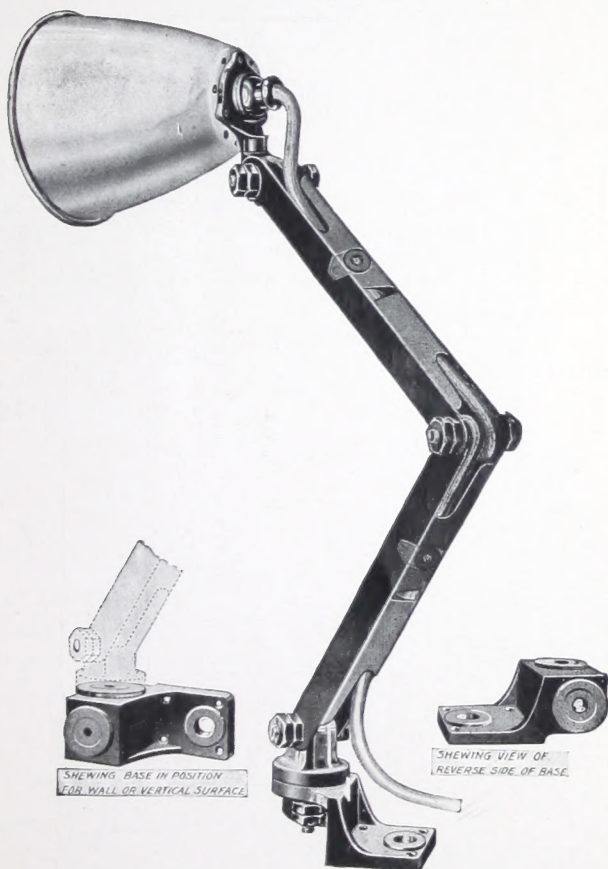
The "*D.L.S.*" *Channel* form of arm completely protects the cable which is held in position by a clip which is a special and intrinsic part of the "*D.L.S.*" *Fitting*.

The best cable for use in the "*D.L.S.*" *Fitting* is the Twin Flexible Patent Cab. Tyre Sheathed Cable which can be supplied if desired.

Any type of wall plug or connection can be used.

# The "D.L.S." 2-arm Electric Fitting.

PATENT No. 119934/18.



Special Base Reg. No. 663880.

# Prices for "D.L.S." Electric Fittings.

## ONE ARM FITTING.

For use in positions requiring a small range complete with special "D.L.S." reflector, to take standard lamp, metal or carbon filament, Polished Brass S.C. and C.G. "Purit" Lamp-holder or B.C. Home Office Type Lamp-holder, and fitted with either "B.B." type base for horizontal surface, or "U.B." type for upright surface ... ..

**19/-** £·95

## TWO ARM FITTING.

For positions requiring a large range, complete as above. ... ..

**21/6** £1·07

## THREE ARM FITTING.

For special range and difficult positions, complete as above ... ..

**24/-** £1·2

If fitted with "D.L.S." Combination Bracket. Registered No. 663880 ... ..

**1/-** £·05

*extra to above prices.*

*Above prices do NOT include Lamp or Cable.*

Extra U.B. or B.B. Base ... ..

**1/-** £·05

"D.L.S." Combination Bracket, Registered No. 663880 ... ..

**2/-** £·10

Additional "D.L.S." Arms, complete with Bolt, Nuts and Spring Washer ... ..

**2/6** £·125

## WIRING PRICES.

One Arm fitted with 3 ft. Twin Flexible Cab Tyre Sheathed Cable ... ..

**3/-** £·15

Two Arm fitted with 4 ft. Twin Flexible Cab Tyre Sheathed Cable ... ..

**3/9** £·18

Three Arm fitted with 5 ft. Twin Flexible Cab Tyre Sheathed Cable ... ..

**4/6** £·22

Cable ... .. per ft. **9d.**

£·04

*All the above prices are NETT.*



# "PURIT AUTOGRIP" B.C. LAMPHOLDER

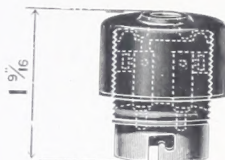
As fitted to "D.L.S." FITTINGS.

Strictly complies with Home Office requirements, the special skirt combining Hand Shield and Shade Carrier.



All 3 parts are made of High-Grade Insulating and Fire-proof Composition, with the exception of Barrel which is Brass moulded into composition.

Neatest and Best H.O. Holder taking shades with  $1\frac{1}{8}$ -in. hole.



Efficiently insulates shade from Holder.

---

## 'D.L.S.' REFLECTORS

Standard "D.L.S." Parabolic Reflector, Vitreous enamelled black outside and white inside. Perfectly ventilated, and has  $1\frac{1}{8}$ -in. hole to take Standard Lamp-holder.



---

### THE IDEAL REFLECTOR.

Diameter  $5\frac{1}{4}$ -ins. Depth 5-ins.

Price **3/3** each net.

For quantities.

Ensures a direct and concentrated light.

Protects lamp and reduces risk of breakage.

Minimises Eyestrain.



MANUFACTURING ELECTRICAL ENGINEERS

PARK STREET  
BIRMINGHAM

Telephone No. - - - - - " CENTRAL 3806.  
Telegrams and Cables - - - - - " RITSPEC, BIRMINGHAM.  
Codes - - - - - A.B.C. 5th Edition and Marconi International

---

### Terms of Business.

DELIVERY. Carriage Paid.

PACKING. Charged at cost and credited in full on return in good condition, carriage paid, complete with packing materials, within 14 days.

Cases and packing of 1/- and less value are not returnable.

PAYMENT. Accounts are due Nett 30 days. In no circumstances can discounts be allowed off Statements.